



PTO/SB/08a/b (08-03)

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete If Known	
				Application Number	10/821812
				Filing Date	April 8, 2004
				First Named Inventor	Raanan A. Miller
				Art Unit	2881
				Examiner Name	Not Yet Assigned
Sheet	1	of	4	Attorney Docket Number	SION-P01-001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
cmg	A1	2,615,135	10/21/52	Glenn, Jr., W.E.	
	A2	2,818,507	12/31/57	Britten, R.J.	
	A3	2,919,348	12/29/59	A. Bierman	
	A4	3,511,986	05/12/70	P.M. Llewellyn	
	A5	3,621,240	11/15/71	Cohen, et al.	
	A6	3,931,589	01/06/76	Aisenberg, et al.	
	A7	4,019,989	04/26/77	Hazewindus, et al.	
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	A12	4,517,462	05/14/85	Boyer, et al.	
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	A34	6,180,414	01/30/01	Katzman	
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	A37	6,495,823	12/17/02	Miller, et al.	
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	A42	US 2001/0030285 A1	10/18/01	Miller et al.	
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Examiner Signature	cm. el. Shammaa	Date Considered	3.16.06
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cmf	A44	US 2002/0134932 A1	9/26/02	Guevremont et al.	
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		Country Code ² -Number ³ -Kind Code ⁴ (if known)				
cmf	B1	SU 966583	10/15/1982	Gorshkov, M.P.		
	B2	SU 1337934A2	09/15/1987	Buryakov, I.		
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	B4	SU 1412447A1	06/20/1998	Buryakov, I., et al.		
	B5	SU 1485808	10/06/1998	Buryakov, I., et al.		
	B6	SU 1627984A2	07/20/1988	Buryakov, I.		
	B7	WO 00/08454	02/17/2000	National Research Council Canada		
	B8	WO 00/08455	02/17/2000	National Research Council Canada		
	B9	WO 00/08456	02/18/2000	National Research Council Canada		
	B10	WO 00/08457	02/19/2000	National Research Council Canada		
	B11	WO 01/08197A1	02/01/2001	National Research Council Canada		
	B12	WO 01/22049A2	03/29/2001	Haley, L., et al.		
	B13	WO 01/35441A1	05/17/2001	National Research Council Canada		
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	B16	WO 02/071053 A	09/09/2002	The Charles Stark Draper Lab		
	B17	WO 02/083276 A1	10/24/02	The Charles Stark Draper Lab		
	B18	WO 03/005016 A1	1/16/03	Sionex Corporation		
	B19	WO 03/015120 A1	2/20/03	Sionex Corporation		
	B20	WO 97/38302	10/16/1997	Mine Safety Appliances		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

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NON PATENT LITERATURE DOCUMENTS				
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me	C1	"A Micromachined Field Driven Radio Frequency-Ion Mobility Spectrometer for Trace Level Chemical Detection," A Draper Laboratory Proposal Against the "Advanced Cross-Enterprise Technology Development for NASA Missions," Solicitation, NASA NRA 99-OSS-05.		
	C2	BARNETT, D.A. et al., "Isotope Separation Using High-Field Asymmetric Waveform Ion Mobility Spectrometry," Nuclear Instruments & Methods in Physics Research (2000), pp 179-185, 450(1).		
	C3	BASILE, F., "A Gas Sample Pre-concentration Device Based on Solid Phase Microextraction (SPME) and Temperature Programmed Desorption (TPD)," Instrumentation Sci. Tech., (2003), pp 155-164, 31(2).		
	C4	BURYAKOV, I.A. et al., "A New Method of Separation of Multi-Atomic Ions by Mobility at Atmospheric Pressure Using a High-Frequency Amplitude-Asymmetric Strong Electric Field," International Journal of Mass Spectrometry and Ion Processes (1993), pp 143-148, 128.		
	C5	BURYAKOV, I.A. et al., "Drift Spectrometer for the Control of Amine Traces in the Atmosphere," J. Analytical Chem., (1993), pp 156-165, 48(1).		
	C6	BURYAKOV, I.A. et al., "Separation Ions According to Mobility in a Strong ac electric Field," Sov. Tech. Phs. Lett. (1991), pp 446-447, 17(6).		
	C7	BURYAKOV, I.A. et al., Device and Method For Gas Electrophoresis, Chemical Analysis fo Environment, edit. Prof. V.V. Malakhov, Novosibirsk; Nauka (1991), pp 113-127.		
	C8	CARNAHAN, B. et al., "Field Ion Spectrometry - A New Analytical Technology for Trace Gas Analysis," ISA, (1996), pp 87-96, 51(1).		
	C9	CARNAHAN, B. et al., "Field Ion Spectrometry - A New Technology for Cocaine and Heroin Detection," SPIE, (1997), pp 106-119, 2937.		
	C10	GUEVREMONT, R. and PURVES, R., "High Field Asymmetric Waveform Ion Mobility Spectrometry-Mass Spectrometry: An Investigation of Leucine Enkephalin Ions Produced by Electrospray Ionization," J. Am. Soc. Mass. Spectrom., (1999), pp 492-501, 10.		
	C11	GUEVREMONT, R. et al., "Calculation of Ion Mobilities From Electrospray Ionization High Field Asymmetric Waveform Ion Mobility Spectrometry Mass Spectrometry," Journal of Chemical Physics, (2001), pp 10270-10277, 114(23).		
	C12	GUEVREMONT, R. et al., "Atmospheric Pressure Ion Focusing in a High-Field Asymmetric Waveform Ion Mobility Spectrometer," Review of Scientific Instruments, (1999), pp 1370-1383, 70(2).		
	C13	HANDY, R. et al., "Determination of nanomolar levels of perchlorate in water by ESI-FAIMS-MS," JAAS (2000), pp 907-911, 15		
	C14	KRYLOV, E.V., "A Method of Reducing Diffusion Losses in a Drift Spectrometer," Technical Physics, (1999), pp 113-16, 4d(1).		
	C15	KRYLOV, E.V., "Pulses of Special Shapes Formed on a Capacitive Load," Instruments and Experimental Techniques, (1997), pp 628, 40(5).		
	C16	MILLER, R.A. et al., "A MEMS Radio-Frequency Ion Mobility Spectrometer for Chemical Agent Detection," (June 2000) Proceedings of the 2000 Solid State Sensors and Actuators Workshop, Hilton Head, SC.		
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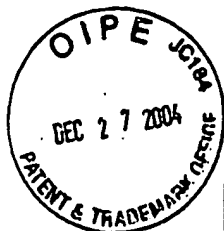
Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
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		Breath," Analytical Biochemistry, (1997), pp 272-278, 247.	
me	C19	PILZECKER, P. et al., "On-Site Investigations of Gas Insulated Substations Using Ion Mobility Spectrometry for Remote Sensing of SF6 Decomposition," IEEE, (2000), pp 400-403.	
	C20	RIEGNER, D.E. et al., "Qualitative Evaluation of Field Ion Spectrometry for Chemical Warfare Agent Detection," Proceedings of the ASMS Conference on Mass Spectrometry and Allied Topics (June, 1997), pp 473A-473B.	
	C21	SCHNEIDER, A. et al., "High Sensitivity GC-FIS for Simultaneous Detection of Chemical Warfare Agents," Mine Safety Appliances Co., Pittsburgh, PA, USA, (2000), AT-Process, pp 124-136, 5(3,4), CODEN: APJCFR ISSN: 1077-419X..	
	C22	SHUTE, L.A. et al., "Curie-point Pyrolysis Mass Spectrometry Applied to Characterization and Identification of Selected Bacillus Species," J. General Micro., (JGMIAN) (1984), pp 343-355, 130(2).	
✓	C23	EICEMAN, et al., "Miniature radio-frequency mobility analyzer as a gas chromatographic detector for oxygen-containing volatile organic compounds, pheromones and other insect attractants," J. Chrom., pp 205-217, 917 (2001).	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
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me	AA	US-2003/0052263-A1	03-20-2003	Kaufman et al.	
	AB	US-2003/0132380-A1	07-17-2003	Miller et al.	
	AC	US-6,639,212	10-28-2003	Guevremont	
	AD	US-6,653,627	11-25-2003	Guevremont	
	AE	US-6,690,004	02-10-2004	Miller et al.	
	AF	US-6,703,609	03-09-2004	Guevremont	
	AG	US-6,713,758	03-30-2004	Guevremont	
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	AK	US-6,774,360	08-10-2004	Guevremont	
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me	BA	WO-01/69217 A2	09-20-2001	National Research Council Canada	

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me	CA	Beverly, M.B. et al., "A Rapid Approach for the Detection of Dipicolinic Acid in Bacterial Spores Using Pyrolysis/Mass Spectrometry," Rapid Communications in Mass Spectrometry, Vol. 10, 455-458 (1996).	
	CB	Dworzanski, J.P. et al., "Field-Portable, Automated Pyrolysis-GC/IMS System for Rapid Biomarker Detection in Aerosols: A Feasibility Study," Field Analytical Chemistry and Technology, Vol. 1, No. 5, 295-305, (1997).	
	CC	Krylov, E.V., "Comparison of the Planar and Coaxial Field Asymmetrical Waveform Ion Mobility Spectrometer (FAIMS)," International Journal of Mass Spectrometry, 225, (2003) pp. 39-51.	
	CD	Krylova, N. et al., "Effect of Moisture on the Field Dependence of Mobility for Gas-Phase Ions of Organophosphorus compounds at Atmospheric Pressure with Two Asymmetric Ion Mobility Spectrometry," J. Phys. Chem. A, Vol. 107, 3648-3654.	
Examiner Signature	me. gl. Hamman		Date Considered 3.16.06

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CME	CE	Snyder, A.P., "Detection of the Picolinic Acid Biomarker in Bacillus Spores Using a Potentially Field-Portable Pyrolysis - Gas Chromatography - Ion Mobility Spectrometry System," Field Analytical Chemistry and Technology, Vol. 1, No. 1, pp. 49-58 (1996).	
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↓	CG	Thornton, S.N. et al., "Pyrolysis-Gas Chromatography/Ion Mobility Spectrometry Detection of the Dipicolinic Acid Biomarker in Bacillus Subtilis Spores During Field Bioaerosol Releases," Field analytical Methods for Hazardous Wastes and Toxic Chemicals: Proceedings of a Specialty Conference, January 1997, Las Vegas, NV.	

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